

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P944105

Luminaire Tested: **GALN-SB8D-927-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944105
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-927-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49628 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

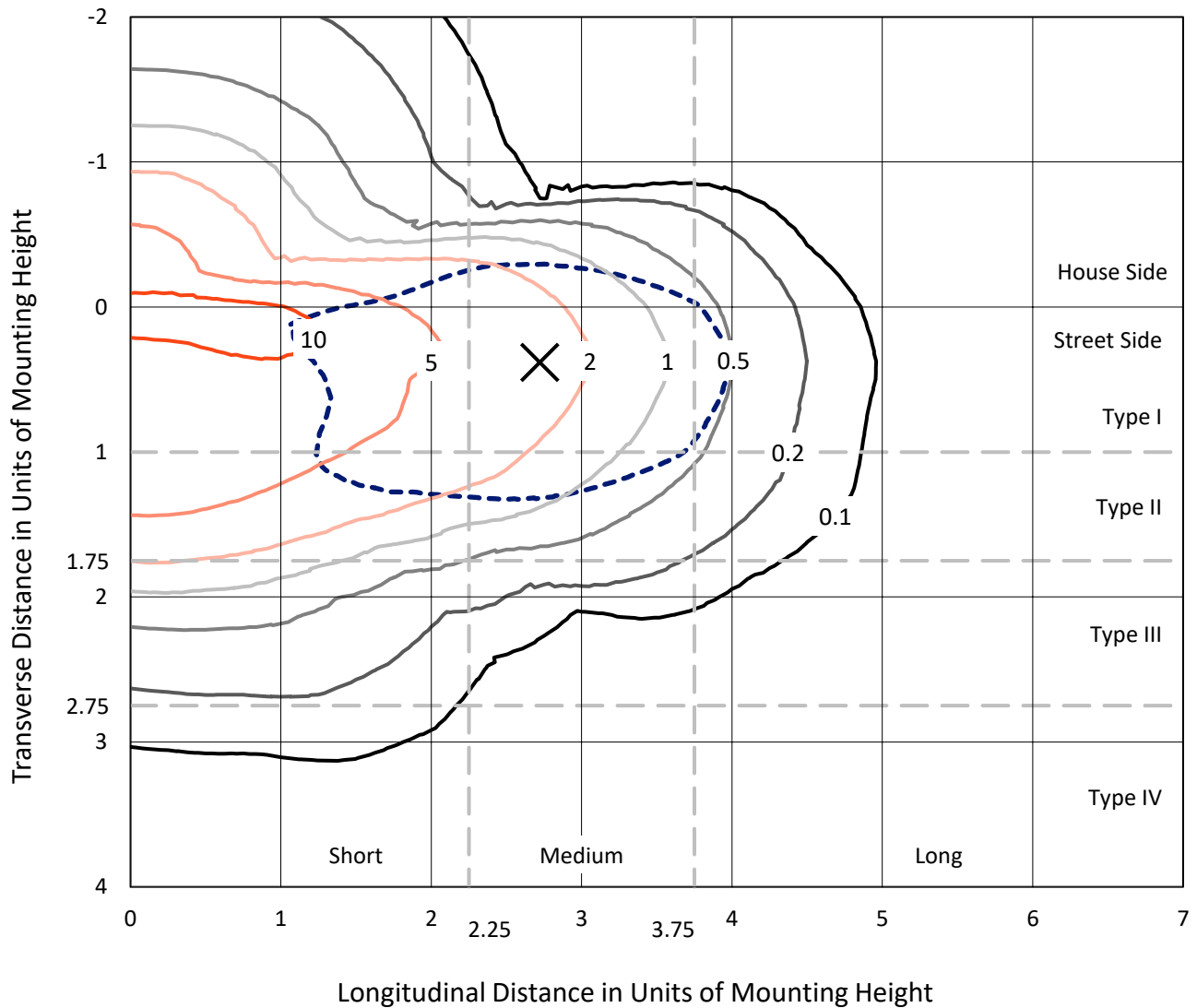
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

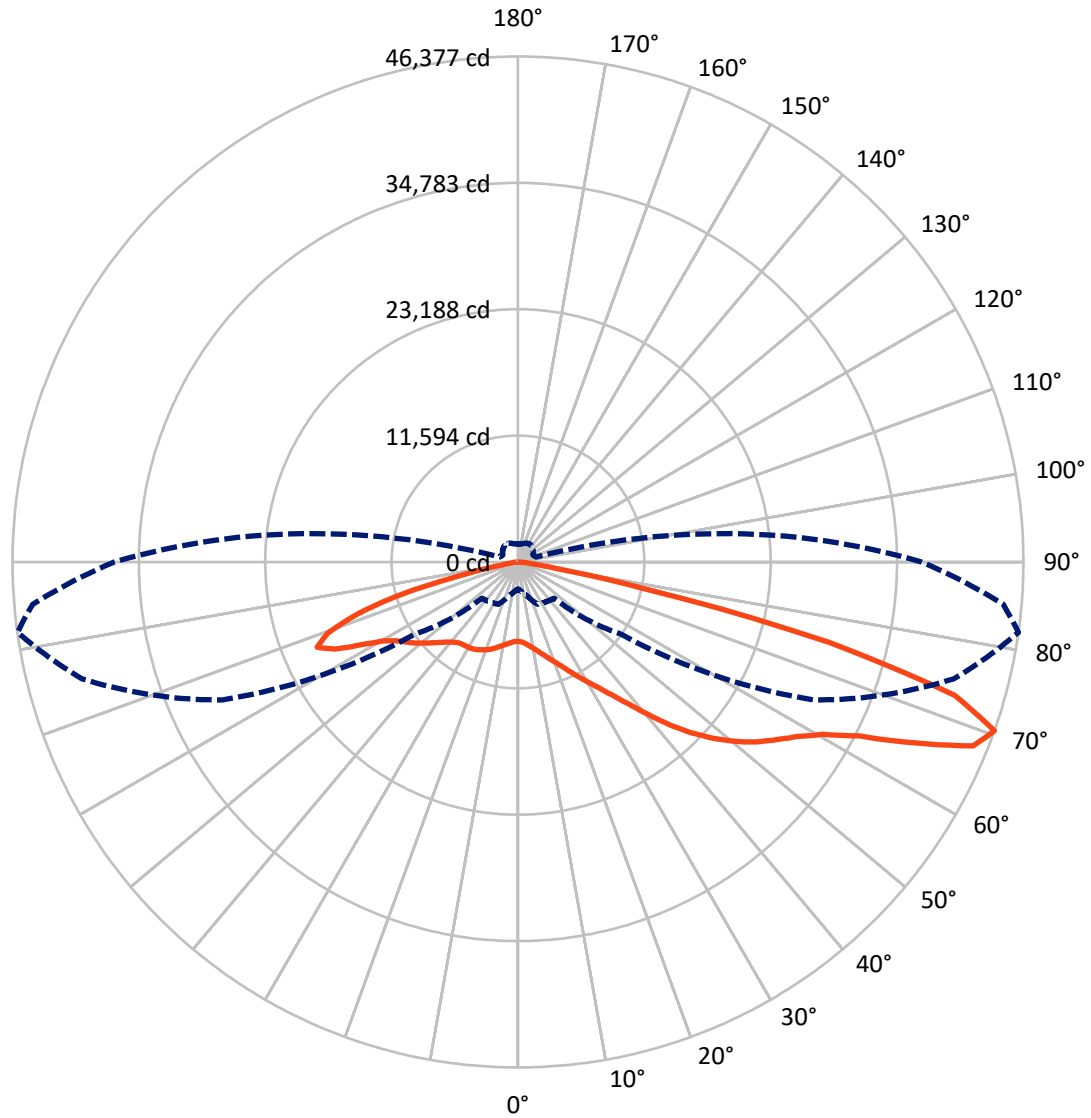
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12234.5	0.0	12234.5
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	37393.5	0.0	37393.5
	% Fixture	75.3	0.0	75.3
Total	Lumens	49628.0	0.0	49628.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.0	1.4
10°-20°	1973.8	4.0
20°-30°	3301.9	6.7
30°-40°	5158.4	10.4
40°-50°	8215.4	16.6
50°-60°	11432.7	23.0
60°-70°	11959.2	24.1
70°-80°	6250.5	12.6
80°-90°	649.0	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	49628.0	100.0
0°-180°	49628.0	100.0

Coefficient of Utilization



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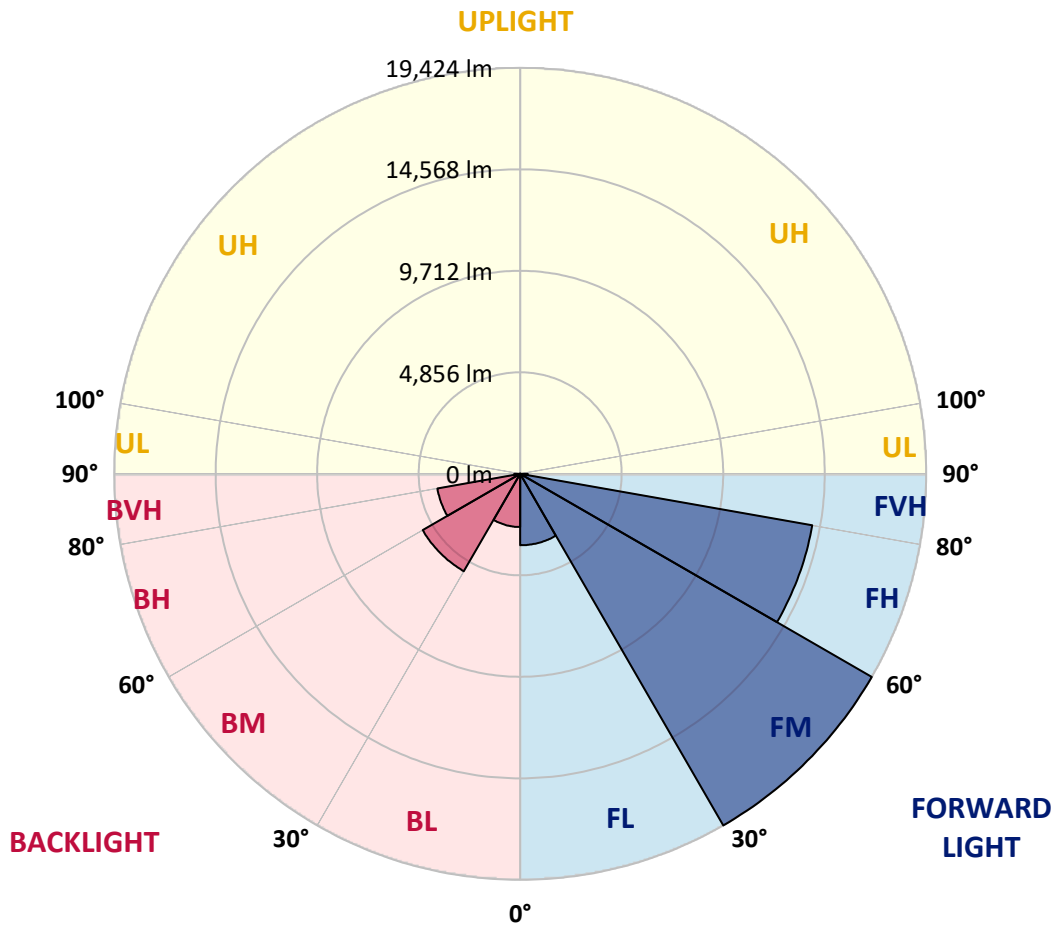
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3417.4	6.9			
FM (30°-60°)	19423.9	39.1			
FH (60°-80°)	14188.8	28.6			G5
FVH (80°-90°)	363.3	0.7			G3/500
BL (0°-30°)	2545.2	5.1	B4/5000		
BM (30°-60°)	5382.7	10.8	B4/8500		
BH (60°-80°)	4020.9	8.1	B4/5000		G4/5000
BVH (80°-90°)	285.7	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	7276.1	7276.1	7276.1	7276.1	7276.1	7276.1	7276.1	7276.1	7276.1	7276.1
2.5°	7449.9	7492.0	7478.9	7465.7	7465.7	7447.3	7444.6	7418.3	7397.2	7363.0
5°	7544.7	7589.5	7584.2	7594.7	7629.0	7636.9	7644.8	7629.0	7586.8	7544.7
7.5°	7460.4	7510.5	7526.3	7589.5	7694.8	7789.6	7860.7	7889.7	7850.2	7789.6
10°	7176.0	7231.3	7286.6	7436.7	7623.7	7847.5	8037.1	8150.4	8142.5	8084.5
12.5°	6599.3	6657.2	6775.7	7068.0	7410.4	7805.4	8158.3	8395.3	8476.9	8434.8
15°	6138.5	6188.5	6278.0	6578.2	7023.3	7623.7	8203.0	8663.9	8871.9	8848.2
17.5°	6125.3	6146.4	6201.7	6343.9	6686.2	7339.3	8155.6	8927.2	9324.9	9322.2
20°	6357.0	6364.9	6396.5	6425.5	6620.4	7123.3	8034.5	9145.8	9833.1	9833.1
22.5°	6678.3	6673.0	6704.6	6678.3	6773.1	7104.9	7958.1	9338.0	10399.3	10441.4
25°	7160.2	7133.9	7126.0	7065.4	7083.8	7276.1	8042.4	9556.6	11070.8	11157.7
27.5°	7802.8	7760.6	7731.7	7592.1	7544.7	7629.0	8300.5	9820.0	11818.7	11968.8
30°	8640.2	8563.8	8521.7	8279.4	8108.2	8121.4	8690.2	10170.2	12600.8	12843.1
32.5°	9783.1	9664.6	9551.3	9153.7	8840.3	8737.6	9193.2	10654.7	13448.8	13835.9
35°	11062.9	10968.1	10847.0	10233.4	9751.5	9514.5	9872.6	11331.5	14441.6	15055.2
37.5°	12295.3	12213.7	12271.6	11444.8	10823.3	10478.3	10762.7	12240.0	15666.1	16572.0
40°	13569.9	13506.7	13514.6	12724.6	12000.4	11613.3	11842.4	13380.3	17069.7	18375.9
42.5°	14955.1	14907.7	14749.7	14049.2	13235.5	12874.7	13085.4	14697.0	18576.0	20429.9
45°	16506.2	16477.2	16329.7	15526.5	14594.3	14188.8	14473.2	16150.6	20090.2	22362.8
47.5°	17846.6	17870.3	17851.8	17175.0	16208.6	15613.4	15953.1	17667.5	21499.1	24179.9
50°	18491.7	18615.5	18797.2	18586.5	17986.1	17380.4	17446.3	19131.7	22842.1	25883.7
52.5°	18154.7	18389.0	18884.1	19221.2	19452.9	19326.5	19150.1	20585.3	24106.1	27421.6
55°	16898.5	17227.7	18049.3	18863.0	20045.4	20964.5	21196.2	22196.9	25338.6	28775.2
57.5°	14610.1	15144.7	15882.0	17527.9	19518.8	21757.2	23582.1	24432.7	26644.7	30220.9
60°	10686.3	11402.6	12319.0	14768.1	17675.4	21333.2	25612.5	27866.6	28501.3	32093.3
62.5°	6838.9	7281.4	8124.0	10430.9	13772.7	19160.6	26233.9	32159.1	31648.2	35163.8
65°	4682.2	4966.6	5738.2	7033.8	8903.5	14262.5	24569.6	35377.1	36646.4	40030.3
67.5°	3402.4	3618.3	4276.6	5411.6	5801.4	8440.0	19065.8	35229.6	41505.0	45044.3
70°	2480.7	2633.4	3186.4	4276.6	4463.6	4695.4	11550.1	29947.0	41399.7	46376.8
72.5°	1838.1	1943.4	2314.8	3318.1	3613.0	3170.6	5717.1	21765.1	35574.6	41947.4
75°	1329.9	1408.9	1682.7	2538.6	2891.5	2414.8	2852.0	12719.3	24814.5	29507.3
77.5°	1016.5	1077.1	1256.1	1859.2	2314.8	1811.8	1769.6	5851.4	11766.0	11824.0
80°	816.4	855.9	953.3	1308.8	1774.9	1356.2	1153.4	2362.2	3718.4	3146.9
82.5°	600.4	666.3	805.8	919.1	1269.3	934.9	703.1	1192.9	1414.1	1216.6
85°	342.3	387.1	487.2	658.4	811.1	571.4	402.9	529.3	658.4	539.8
87.5°	121.1	158.0	171.2	258.1	352.9	237.0	155.4	152.7	215.9	160.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7276.1	0°	7276.1	7276.1	7276.1	7276.1	7276.1	7276.1	7276.1	7276.1	7276.1	7276.1
7355.1	2.5°	7328.8	7315.6	7262.9	7191.8	7118.1	7047.0	7023.3	6973.2	6939.0	6920.6
7526.3	5°	7476.2	7434.1	7310.3	7152.3	6986.4	6807.3	6680.9	6565.1	6480.8	6401.8
7760.6	7.5°	7686.9	7613.2	7399.9	7123.3	6828.4	6530.8	6309.6	6141.1	6027.9	5954.1
8034.5	10°	7931.8	7818.6	7492.0	7078.6	6623.0	6196.4	5935.7	5790.8	5719.7	5680.2
8347.9	12.5°	8213.6	8052.9	7586.8	6975.9	6309.6	5822.4	5643.4	5601.2	5603.9	5606.5
8742.9	15°	8561.2	8337.3	7663.2	6752.0	5901.5	5535.4	5503.8	5572.3	5643.4	5677.6
9190.6	17.5°	8953.6	8637.6	7676.4	6383.4	5501.2	5351.1	5451.1	5598.6	5706.6	5754.0
9690.9	20°	9374.9	8943.0	7581.6	5861.9	5172.0	5201.0	5380.0	5569.6	5688.1	5748.7
10262.4	22.5°	9856.8	9269.6	7355.1	5314.2	4903.4	5037.7	5248.4	5432.7	5556.5	5617.0
10933.9	25°	10407.2	9635.6	6999.6	4853.4	4671.7	4853.4	5064.0	5216.8	5316.8	5372.1
11684.4	27.5°	11018.1	10017.5	6525.6	4487.3	4468.9	4663.8	4837.6	4956.1	5008.7	5050.9
12482.3	30°	11631.7	10365.1	5951.5	4210.8	4292.4	4476.8	4600.6	4653.2	4669.0	4676.9
13372.4	32.5°	12295.3	10665.3	5348.4	3981.7	4123.9	4295.1	4368.8	4392.5	4318.8	4268.7
14452.1	35°	13098.5	10986.5	4758.6	3800.0	3958.0	4105.5	4129.2	4108.1	4021.2	3918.5
15805.7	37.5°	14091.3	11386.8	4287.2	3671.0	3802.6	3900.1	3871.1	3865.8	3873.7	3752.6
17433.1	40°	15308.0	11908.2	3942.2	3570.9	3676.2	3697.3	3615.7	3660.4	3699.9	3515.6
19218.6	42.5°	16658.9	12537.6	3723.6	3502.4	3570.9	3520.9	3394.5	3444.5	3439.2	3196.9
21011.9	45°	18036.2	13222.3	3647.3	3452.4	3473.5	3373.4	3233.8	3247.0	3136.4	2917.8
22731.5	47.5°	19405.5	13957.0	3694.7	3410.3	3352.3	3239.1	3131.1	3073.2	2909.9	2746.6
24380.0	50°	20748.6	14728.6	3868.5	3326.0	3186.4	3120.6	3041.6	2938.9	2765.1	2625.5
25939.0	52.5°	21994.2	15505.5	4063.3	3186.4	2978.4	3017.9	2967.8	2849.3	2678.2	2536.0
27413.7	55°	23173.9	16282.3	4139.7	2994.2	2783.5	2928.3	2899.4	2680.8	2475.4	2359.5
28956.9	57.5°	24459.0	17217.2	4055.4	2749.3	2625.5	2825.6	2715.0	2472.8	2354.3	2267.4
30966.2	60°	26239.2	18684.0	3873.7	2446.4	2475.4	2672.9	2483.3	2383.2	2254.2	2156.8
33978.8	62.5°	29196.5	21420.1	3581.4	2146.2	2299.0	2446.4	2372.7	2272.6	2141.0	2046.2
39129.7	65°	33568.0	25222.7	3031.0	1911.8	2101.5	2225.2	2254.2	2154.1	2017.2	1917.1
43643.3	67.5°	37254.7	27608.6	2293.7	1717.0	1898.7	2046.2	2127.8	2030.4	1885.5	1788.1
44699.3	70°	37051.9	25875.8	1751.2	1524.7	1719.6	1869.7	1975.1	1898.7	1743.3	1651.1
40601.8	72.5°	32909.6	21646.6	1416.8	1329.9	1537.9	1685.4	1811.8	1753.8	1595.8	1506.3
29744.3	75°	24177.2	15365.9	1132.4	1132.4	1311.4	1493.1	1632.7	1595.8	1451.0	1387.8
12487.6	77.5°	10191.3	6446.6	887.5	940.1	1090.2	1282.5	1456.3	1469.4	1343.0	1422.0
3302.3	80°	2709.8	1777.5	676.8	740.0	855.9	1058.6	1266.7	1261.4	1124.5	1050.7
1227.2	82.5°	1032.3	700.5	481.9	521.4	618.8	811.1	1003.3	1034.9	898.0	776.9
481.9	85°	397.6	300.2	297.6	313.4	360.8	537.2	758.4	784.8	676.8	574.1
134.3	87.5°	102.7	89.5	110.6	105.3	165.9	287.0	434.5	450.3	413.4	239.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
7276.1
6941.6
6433.4
5969.9
5690.8
5611.8
5675.0
5764.5
5764.5
5632.8
5387.9
5066.7
4695.4
4284.5
3923.8
3760.5
3520.9
3194.3
2925.7
2746.6
2615.0
2538.6
2349.0
2259.5
2151.5
2046.2
1922.4
1790.7
1659.0
1506.3
1369.4
1290.4
977.0
776.9
592.5
342.3
0.0

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